Postel

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UCLA
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Network Working Group/Request for Comments:22

Host-Host Control Message Formats

NWG/RFC 11 has been modified at UCLA and will be republished. In the meantime, it seems important to report a new control message format which does not use 7-bit ASCII character mode of transmission.

All Host-Host control messages consist of sequences of 8-bit bytes of the form:

<control byte><parameter byte 1><parameter byte 2>...<parameter byte n>

It is reasonable to transmit more than one control message in any given packet, although this is not mandatory.

Presently, 9 control messages have been defined by UCLA these are given in the table below along with their parameters. The interpretation is given from the point of view of the transmitting host.

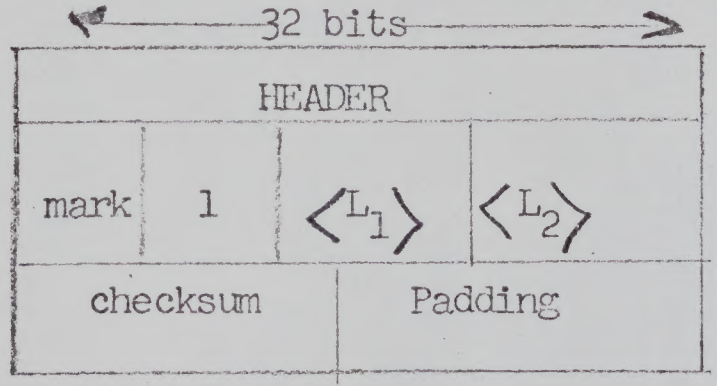
("L" or "L_i" mean Link #, and are binary values.)

Control byte	Parameters	Interpretation
<0>	<L>	Please establish primary connection; our output link # is L
<1>	<L_1><L_2>	Please establish auxiliary connection parallel to our primary output link L. The auxiliary output link is L_2
<2>	<L_1><L_2>	DK primary. Your primary output link to us was L; our primary output link to you is L_2.
<3>	<L_1><L_2>	OK auxiliary. Your auxiliary output link is L_i, our auxiliary output link is L_2.
<4>	<L>	Not OK primary. We cannot establish a primary connection. Your primary output link number was L.
<5>	<L_i><L_2>	Not OK auxiliary. We cannot establish an auxiliary connection. Your primary output link no was

L_2.

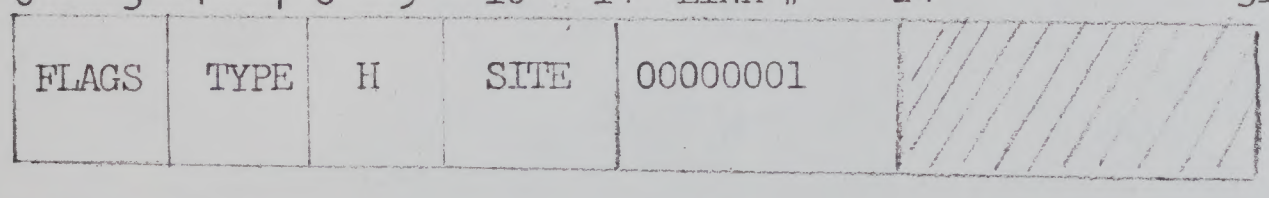
⟨6⟩	⟨L⟩	Please stop transmitting over link number L. This is called the CEASE directive.
⟨7⟩	⟨L⟩	We are CLOSING our output link number L. You may get this message before the last message arrives over this link since control messages are higher priority than regular data messages.
⟨8⟩	⟨L⟩	UNCEASE: that is, you may resume transmitting over output link number L.

Each control message is embedded in the appropriate message structure e.g.:



typical control message
(please establish auxiliary link #L_2 parallel to our primary link #1)

The header for all HOST-HOST control messages is given below:



where FLAGS-0000

TYPE - 0000 (regular message)

H - host #(0-3) at SITE (usually 0 for single HOST sites)

SITE - Site #

LINK# - 000000001 (HOST-HOST control link)